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1 What is claimed is:

1. A method of displaying images using a wearable display device, comprising:  
generating an inner region display signal;  
determining at least one of a motion, brightness or color characteristic from the inner  
region display signal;  
generating an outer region display signal using the at least one motion, brightness or  
color characteristic;  
displaying an inner region of an image on a display using the inner region display  
signal; and  
displaying an outer region of the image on the display using the outer region display  
signal, wherein the outer region is of substantially lower resolution than the inner region.

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13 2. The method of claim 1, wherein the step of generating an outer region display  
14 signal comprises:

15 adjusting the outer region display signal so that the outer region of the image blends  
16 with the inner region of the image.  
17

18 3. The method of claim 1, wherein the step of displaying an outer region of an image  
19 comprises:  
20 displaying an outer region of less than 5 cycles per degree resolution.  
21

22 4. The method of claim 3, wherein the step of displaying an inner region of an  
23 image comprises:  
24 displaying a center of the inner region of at least 15 cycle per degree resolution.

1        5. The method of claim 3, wherein the step of displaying an outer region of an  
2        image comprises:

3              illuminating an array of red, blue and green lights.

4

5        6. The method of claim 3, wherein the step of displaying an outer region of an  
6        image comprises:

7              illuminating an array of white lights.

8

9        7. The method of claim 1, wherein the step of displaying an outer region of an image  
10      comprises:

11              shining red, blue and green lights into a user's field of view.

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13        8. A wearable display, comprising:

14              a display having an inner region and an outer region of substantially lower resolution  
15        than the inner region; and

16              a controller operably coupled to the display, wherein the controller generates an  
17        inner region display signal, and an outer region display signal using at least one of a  
18        motion, brightness or color characteristic from the inner region display signal.

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20        9. The display of claim 8, wherein the outer region is of less than 5 cycles per  
21        degree resolution.

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23        10. The display of claim 8, wherein the inner region is of at least 15 cycle per  
24        degree resolution at a center of the inner region.

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- 1        11. The display of claim 9, wherein the outer region comprises:  
2                  an array of red, blue and green lights.  
3  
4        12. The display of claim 9, wherein the outer region comprises:  
5                  an array of white lights.  
6  
7        13. A method of displaying images using a wearable display, comprising:  
8                  determining an amount of distortion for image signal data, the distortion acting to  
9                  distort a source image conveyed by the image signal data so that a field of view of the  
10          source image is expanded;  
11                  adjusting the image signal data so that the source image conveyed by the image  
12          signal data is distorted according to the determined amount of distortion;  
13                  generating a display signal using the adjusted image signal data; and  
14                  displaying an image on a display using the display signal.  
15  
16       14. The method of claim 13, wherein the step of adjusting the image signal data  
17          comprises:  
18                  creating a distortion ratio between an inner region and an edge of the source image  
19          of between 2:1 and 20:1.  
20  
21       15. The method of claim 14, comprising:  
22                  sampling a source image signal to obtain the image signal data.  
23  
24       16. A wearable display, comprising:  
25                  a display having an inner region and an outer region; and

1           a controller operably coupled to the display, wherein the controller obtains image  
2       signal data from a source image signal and generates a display signal by determining an  
3       amount of distortion for the image signal data, and adjusting the image signal data so that a  
4       source image conveyed by the image signal data is distorted according to the determined  
5       amount of distortion, the distortion distorting the source image so that a field of view of the  
6       image is expanded to the outer region of the display.

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8           17. The display of claim 16, wherein the distortion ratio between an inner region  
9       and an edge of the source image is between 2:1 and 20:1.

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11           18. The wearable display of claim 16, comprising:  
12       an image source coupled to the controller, wherein the image source generates the  
13       source image signal.

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15           19. The wearable display of claim 18, wherein the controller comprises:  
16       a processor operably coupled to the image source, wherein the processor samples the  
17       source image signal.

18

19           20. A wearable display, comprising:  
20       a display for displaying images;  
21       a controller operably coupled to the display, wherein the controller obtains image  
22       signal data from a source image signal and generates a display signal for display by the  
23       display; and  
24       optics arranged in the wearable display, wherein the optics modify an image

1 displayed by the display by distorting an outer region of the image by a greater amount than  
2 an inner region of the image so that a field of view of the image is increased.

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4 21. The wearable display of claim 20, wherein a distortion ratio between a portion  
5 of the outer region and a portion of the inner region is between 2:1 and 20:1.